

# PRELIMINARY NOTICE OF REJECTION OF THE IPO (TRANSLATION)

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### **SUBJECT**:

After examination, the IPO considers that the subject ROC (Taiwan) Patent Application No. 091110622 has the indefinite points as indicated in the following EXPLANATION (3). The applicant is required to file a response in duplicate by 1 April 2004 if any substantive counter-evidence or arguments are present. If the applicant fails to act according to the notice within the time limit, the IPO shall proceed with the examination on the basis of the materials on hand.

### **EXPLANATION:**

- (1) If the applicant wishes to make amendments, the applicant should act according to the provisions of the Patent Law, Articles 44, 44-1, and 102-1, the Enforcement Rules of the Patent Law, Article 28, and the Announcement Jyh-Fa No. 0918600118-0 issued on 8 November 2002 by this Office, and a government fee of NT\$1,000 for amendment should be paid. (If the applicant makes supplements or amendments to the specification or drawings, a written application for such supplements or amendments in duplicate, a marked-up version of the amended specification or drawing pages in duplicate, and a non-marked-up, replacement version of the amended specification or drawing pages in triplicate shall be submitted. If the supplements or amendments render the page numbers of the original specification out of succession, the whole specification with the supplements or amendments in triplicate shall be submitted.)
  - (2) If the applicant wishes to appear before the IPO for a face-to-face demonstration or explanation, please explicitly indicate "Interview Requested" in the response. The place and time for conducting an interview will be arranged if the IPO considers it necessary and a government fee of NT\$2,000 should be paid.
- (3) Upon examination, it is considered that:



- (a) The subject invention is entitled "PROCESS AND APPARATUS FOR OBTAINING BULK MONO-CRYSTALLINE GALLIUM-CONTAINING NITRIDE." The applicant made amendments in November 2002. Upon examination, it is found that the amendments do not change the substance of the invention. The subject application is examined on the basis of the amended claims and documents on file.
- (b) The subject invention discloses a method for preparing a gallium-containing nitride crystal comprising a step of bringing a gallium-containing feedstock into a supercritical state in the presence of an alkali-metal containing component and a nitrogen-containing solvent, a dissolution step at a first temperature and pressure, and a crystallization step at a second temperature and pressure, to obtain a monocrystalline gallium nitride.
- (c) Upon examination, it is found that Journal of Physics Condensed Matter, (v 13, n 32, Aug 13, 2001, pp 6875-6892) and MRS Internet J. Nitride Semicond. Res. (v 3, A 25, 1998) have disclosed a process for the growth of bulk gallium nitride from a gallium solution under high pressure. The subject application should concretely describe the technical features and contents of the subject invention and explicates the differences between the subject invention and the above prior art references, to clearly show the novelty and the inventive step of the subject invention.
- (d) Claims 1, 31, 52, 76, 77, 83, 85, and 86, directed to processes, do not concretely set forth the essential conditions such as temperature and pressure, for practicing the invention. The scope of the above claims is overly broad and ambiguous and exceeds that supported by the working examples.
- (e) Claims 36, 37, 38, and 94, referring to a crystal or a substrate, are overly ambiguous in description, and cannot concretely define the differences between the subject invention and the prior art reference, e.g., Physica Status Solidi (a) Applied Research, v 180, n 1, 2000, pp 51-58.
- (f) Enclosed is a copy each of the above citations.

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說

明

經 濟 部 智慧財 產局 利 申請案 核 駁 理 由 先 行 通 知 書

受 文 者 公司(代理人:時艾蒙諾公司、日本 陳長文 中 先生) 十業股公 份 有限

地 址 北 市 松山區敦化 北路二○一號七

發 文文號 文日 期 第〇九三二〇〇九一四六〇號〈 九三〉智專二(六)01103字 中 華民 國九十三年二月二 日

主 第〇 司) 若有具體反證 九 O 六二二 四資料或說: 號專 明 利 申 , 請 請 案 經 到次 審 查 日 後 起 發 現 十日 尚 有 內提出 如 說 明 申復 Ξ 所 說 述 明 不 明 有 確 關 之 反證 處 資料 台 端 式二份 (貴公

若 屆 期 未 依 通 知 內 容 辨 理 者 , 專 利專文 責 機 關 得 依六 現 有 資料 續 行 審 查 請及 查 照

圖式 全 修 Ĺ 一份說 + 並 案 人替换頁 檢 規 如 費係 明 送 有 書或 補 本 充 正 式三 局 圖 應 • 修正 式 依 千元 份 式 部 利 三 如份 正 份 補 劃 至 充 線 如 四 有補 局 月 之 • 修正 說 入 四 明書或圖式修正 充 日 條 智 後 • 法 致 修正 第 字第〇九 原 四 說 說 + 明 明 四 書 書 條 或 或圖式 頁 之 圖 式二份 式 六 0 頁數 第 Ŏ 及補 應 百 連 備 充 具 條 補 修正 充 0 之 應 後 檢 修正 公告 附 無劃 專 申 利 補 之 充線請 規 法 之 書 定 施 說 辨 行 式理 明 細 後 書 之 或 份 繳 則

若希望來局 地 點 間 舉 辨 面 示 範 面 或 詢 說 明 並 繳 請於申復 交 規 費 說 新 明 台 幣 書 內 7 註 明 元 正 申 請 面 詢 , 本 局 認 為 有 必 要 時 , 另 安 排

本 經 查 認 為

獲 得 含 鎵 氮 化 物 之 整體單結晶體 之 方 法及裝置」 申 請人於九十一 年十 月十

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第一頁

五



日提出修正 經查該修正並未變更實質,本案依所提修正本及卷存資料逕行審查,合先

- $\subseteq$ 本案揭示 獲得單晶性之鎵氮化物 超臨界狀態,經第一溫度、 種製 備 含鎵氮 化物晶體的方法 壓力之溶解步驟及經第二溫度、壓力之結晶化步驟,以 , 係使含鎵原料於含鹼金屬成分及含氮溶 劑
- 經檢索公開資料Journal of Physics Condensed Matter (v 13, 明與上述前案之差異,以明確揭示本案新穎性、進步性。 6875-6892) 及MRS Internet J. Nitride Semicond. Res. (v 3, A 25, 1998) 引揭 種自鎵溶液中高壓成長整體鎵氮化物之方法,本案應具體敘明技術特徵內容並申復 n 32, Aug 13, 2001,
- 四 申請專利範圍第1、31、52、76、77、83、85、86項所請方法未具體載明實施之必要條

如溫度、壓力範圍等,所請範圍過廣且籠統,已超出說明書實施例所能支持者

五 申請專利範圍第36、37、38、94之晶體、基材所述過於籠統,無法具體界定與習知之差 (吳Physica status solidi (a) Applied Research(v180, n1, 2000, p51-58))

(六)檢附前述引證資料影本。 一併指明。

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